

IN THE CLAIMS

1 (currently amended). A method for signaling of information in a frame based transmission system, whereat signaling information contains information necessary for the operation of the transmission system,

characterized by steps of

~~inserting a bit sequence of signaling information related to individual frames into said individual frames, and~~

~~partitioning asaid bit sequence of signaling information and inserting different bits of said partitioned bit sequence of signaling information into a plurality of frames other than said individual frames and~~

~~inserting said bit sequence of signaling information into another frame, wherein said bit sequence is related to said another frame.~~

2 (currently amended). A method according to claim 1,

characterized in that

~~said inserted signaling information and said inserted bits of said partitioned bit sequence signaling information and said inserted bit sequence~~ are synchronized by using the given synchronization of the frame based transmission system.

3 (currently amended). A method for signaling of information in a frame based transmission system, whereat the signaling information contains information necessary for the operation of the transmission system,

characterized by steps of

~~inserting a bit sequence of signaling information related to an individual frames into said individual frames, and~~

~~partitioning a said bit sequence of signaling information and inserting different bits of said partitioned bit sequence of signaling information into a plurality of frames other than said individual frames, and~~

~~inserting said bit sequence of signaling information into another frame, wherein said bit sequence is related to said another frame and wherein said bit sequence of signaling~~

information and said partitioned bit sequence of signaling information indicate a coding mode used for coding and decoding data in the transmission system.

4 (currently amended). A method according to claim 1,
characterized in that

~~an individual frame~~ said inserted bit sequence of signaling information related to said another frame indicates a coding mode used for coding and decoding data in the transmission system, said partitioned bit sequence of signaling information inserted into a plurality of different frames of the uplink is a quality criterion for the transmission, and

~~other than said individual frame~~ said partitioned bit sequence of signaling information inserted into a plurality of frames of the downlink indicates a coding mode used for coding and decoding data in the transmission system.

5 (currently amended). A method according to claim 1,
characterized in that
~~individual frames~~ said inserted bit sequence of signaling information related to said another frame is channel coded separately.

6 (currently amended). A method according to claim 1, characterized in that ~~said different bits of said partitioned bit sequence of~~ signaling information inserted into a plurality of frames other than said individual frame is are channel coded together with data contained in said plurality of other frames.

7 (previously amended). A method according to claim 1,
characterized in that
the transmission system is a radio network system.

8 (previously amended). A method according to claim 7,
characterized in that
said radio network system is a GSM system.

9 (currently amended). A frame based transmission system for signaling of information, whereat the signaling information contains information necessary for the operation of the transmission system, having

means for coding and decoding of data (10,11;20,21),

means for handling the coded data in frame format (14;24), and

means for transmitting and receiving the frames (15,16;25,26),

characterized by

~~means for inserting and evaluating a bit sequence of signaling information (12;22) into and from an individual frames to which said bit sequence relates, and~~

means for partitioning a said bit sequence of signaling information (12;22) and inserting and evaluating different bits of said partitioned bit sequence of information into and from a plurality of frames, and other than said individual frame

means for inserting and evaluating said bit sequence of signaling information (12;22) into and from another frame, wherein said bit sequence is related to said another frame.

10 (currently amended). A system according to claim 9,

characterized in that

means for synchronizing (10,11,14;20,21,24) are used to synchronize said inserted different bits of said partitioned bit sequence of signaling information and said inserted bit sequence of signaling information and said inserted partitioned signaling information according to the given synchronization of the frame based transmission system.

11 (currently amended). A frame based transmission system for signaling of information, whereat the signaling information contains information necessary for the operation of the transmission system, having

means for coding and decoding of data (10, 11; 20, 21),

means for handling the coded data in frame format (14; 24), and

means for transmitting and receiving the frames (15, 16; 25, 26),

characterized by

~~means for inserting and evaluating a bit sequence of signaling information (12; 22) into and from an individual frames to which said bit sequence relates, and~~

means for partitioning a said bit sequence of signaling information (12; 22) and inserting and evaluating different bits of said partitioned bit sequence of information into and from a plurality of frames, and other than said individual frames,

means for inserting and evaluating said bit sequence of signaling information (12;22) into and from another frame, wherein said bit sequence is related to said another frame, and wherein means for channel coding and decoding (13; 23) are used to channel code and decode the bit sequence of signaling information provided by said means for inserting and evaluating said bit sequence of signaling information (12; 22) into and from said another individual frame.

12 (currently amended). A system according to claim 9,

characterized in that

the means for channel coding (11;21) are used to channel code and decode the different bits of said partitioned bit sequence of signaling information provided by said means for partitioning said bit sequence of signaling information (12;22) and inserting and evaluating different bits of said partitioned bit sequence of information into and from a plurality of frames other than said individual frame.

13 (previously amended). A system according to claim 9,

characterized in that

the transmission system is a radio network system.

14 (previously amended). A system according to claim 13,

characterized in that

said radio network system is a GSM system.

15 (currently amended). A system according to claim 9,

characterized in that

said bit sequence of signaling information provided by said means for inserting and evaluating signaling information (12;22) into and from an individual frames to which said bit sequence relates and said partitioned bit sequence of signaling information

provided by said means for partitioning said bit sequence of signaling information (12;22) and inserting and evaluating different bits of said partitioned bit sequence of information into and from a plurality of frames other than said individual frame and said bit sequence of signaling information provided by said means for inserting and evaluating said bit sequence of signaling information (12;22) into and from another frame indicate coding modes used by the means for coding and decoding (10,11;20,21).

16 (previously amended). A system according to claim 15, characterized in that said system is a fixed part (1) of said radio network system.

17 (currently amended). A system according to claim 9, characterized in that ~~said bit sequence of signaling information provided by said means for inserting and evaluating said bit sequence of signaling information (12;22) into and from an individual frame to which said bit sequence relates indicate coding modes used by the means for coding and decoding (10,11;20,21), and said partitioned bit sequence of signaling information provided by said means for partitioning said bit sequence of signaling information (12;22) and inserting and evaluating different bits of said partitioned bit sequence of information into and from a plurality of frames other than said individual frame indicates a quality criterion for transmission and said bit sequence of signaling information provided by said means for inserting and evaluating said bit sequence of signalling information (12;22) into and from said another frame indicates coding modes used by the means for coding and decoding (10, 11; 20,21).~~

18 (previously amended). A system according to claim 17, characterized in that said system is a mobile part (2) of said radio network system.

19 (previously amended). A system according to claim 18, characterized in that

Serial No. 09/356260
Eizenhoefer 7-2-1

said quality measurement for transmission is evaluated by said mobile part (2) of said radio network system, based on frames received from said fixed part of said radio network system.

THE REMAINING PORTION OF THIS PAGE IS INTENTIONALLY LEFT BLANK